

COMPOSITIONS, ZINC ELECTRODES, BATTERIES AND THEIR METHODS OF MANUFACTURE

ABSTRACT OF THE DISCLOSURE

A composition, method of its preparation, and zinc electrodes comprising the composition as the active mass, for use in rechargeable electrochemical cells with enhanced cycle life is described. The electrode active mass comprises a source of electrochemically active zinc and at least one fatty acid or a salt, ester or derivative thereof, or an alkyl sulfonic acid or a salt ester or derivative thereof. The zinc electrode is assumed to exhibit low shape change and decreased dendrite formation compared to known zinc electrodes, resulting in electrochemical cells which have improved capacity retention over a number of charge/discharge cycles.